GOOLY CONSULTANCY SERVICES
ISO 9001 : 2015 Certified & NABL Accreditated Laboratory as per ISO/IEC - 17025 - 2017
Corporate off : No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

1274

GCS/133/BBMP/YNK/Pkg 3/21-22/57

Date: 21.06.2021

To,

The Executive Engineer,
Yelahanka Division,
Bruhat Bengaluru Mahanagara Palike (BBMP),
Bangalore – 560064

FREQUANCY AND QUALITY REPORT

Sub: Regarding Quality Report for the below mentioned work.

Name of Work: Improvements to roads, drains and other developmental works in ward no-03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03).

Sl. NO.	Description of Work	Unit	Quantity	No of samples tested	Standards
1	Providing and laying plain/reinforced cement concrete for side drains walls & bottom thickness 15cm using M20 nominal mix concrete	Cum	928.51	19	Per 50 Cum
2	Providing TMT Bars Fe 500 steel reinforcement for RCC	MT	57.61	3	Per Dia of steel
3	Construction of Granular Sub-Base Grading V as sub base and drainage layer	Cum	136.63	1	Per 400Cum
4	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam	Cum	182.17	1	Per 200Cum
5	Providing and laying dense graded with 4.5 % VG-30 Bitumen crushed aggregates	Cum	380.34	6	Per day Two Tests
6	Providing and laying bituminous concrete 40mm thick with 5.4 % of modified bituminous binder	Cum	783.70	14	Per day Two Tests

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above-mentioned items of the work was found to be completed satisfactorily for the 2nd & Final bill.

Chief Project Manag-
Gooly Consultancy Services

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಪಾ.ಪಿ. ಬೆಂಗಳೂರು-106

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Sample ID No: 20338-7/1

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
8	Compressive Strength					
	3 Days	27.5	N/mm^2	Min 16 N/mm^2	Min 23 N/mm^2	Min 27 N/mm^2
	7 Days	36.5	N/mm^2	Min 22 N/mm^2	Min 33 N/mm^2	Min 37 N/mm^2
	28 Days	45.0	N/mm^2	Min 33 N/mm^2, Max 48 N/mm^2	Min 43 N/mm^2, Max 58 N/mm^2	Min 53 N/mm^2

Remarks:

1. The test results pertain to the number of sample Received and Tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By:
Sushma

Tested By:
Ashwini

Gooly Consultancy Services Bangalore

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1279

Lab ID: GCS-03-20338-1
Date: 02-02-2021

TEST REPORT ON PHYSICAL PROPERTIES OF FINE AGGREGATE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name of Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Sample ID No: 20338-1/3
Date of Receipt: 27-01-2021
Location: Escorts Engineering Layout 3rd Main Road Ch: 00-103.00
Sampling : Sample Received from the site and Tested
Sample Identification* M-Sand
Reference to BIS code Test Method:
IS 2386 (Part 1) : 1963 (RA 2016) Particle Size And Shape Cl.2
IS 2386 (Part 3) : 1963 (RA 2016) Specific gravity, density, voids, absorption and bulking
IS 2386 (Part 4) :1963 (RA 2016) Mechanical Properties
Specification:
IS 383 : 2016 Coarse and fine aggregate for concrete
Condition of sample: Satisfactory
Date of test: 28-01-2021 to 01-02-2021

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF FINE AGGREGATE:

Total weight taken: 1000 grams

SL.No	Sieve Designation	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383 : 2016 Table-9, (Cl-6.3)				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample confirms to Grading Zone- II
2	4.75 mm	8	8	0.8	99.2	90-100	90-100	90-100	95-100	
3	2.36 mm	160	168	16.8	83.2	60-95	75-100	85-100	95-100	
4	1.18 mm	210	378	37.8	62.2	30-70	55-90	75-100	90-100	
5	600 micron	250	628	62.8	37.2	15-34	35-59	60-79	80-100	
6	300 micron	244	872	87.2	12.8	5-20	8-30	12-40	15-50	
7	150 micron	100	972	97.2	2.8	0-10	0-10	0-10	0-15	
8	Pan	28	1000	100	0	---	---	---	---	

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

1281

Lab ID: GCS-03-20338-1

Date: 02-02-2021

TEST REPORT ON MECHANICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Client: Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 03

Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Name of Contractor: M/s RAM & Co., Bangalore

Name of PMC: M/s Gooly Consultancy services, Bangalore

Date of Receipt: 30-01-2021

Location: Escorts Engineering Layout 3rd Main Road Ch: 00-103.00

Sampling : Sample Received from the site and Tested

Reference to BIS codes: **Test Method:**

IS 1608 (Part 1) : 2018, Metallic Materials, Tensile Testing, Method of Test at Room Temperature

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement - Bend & Rebend Test

Specification:

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement

Condition of sample: Satisfactory

Date of test: 01-02-2021 to 02-02-2021

Sl. No	Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
					0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
1	RD TMT Fe 550	20338-1/1a	08	0.375	560	625	1.11	25.0	–	–
	RD TMT Fe 550	20338-1/1b	08	0.372	–	–	–	–	No Rupture or Crack Visible	–
	RD TMT Fe 550	20338-1/1c	08	0.371	–	–	–	–	–	No Rupture or Crack Visible

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1284

Lab ID : GCS-03-20338-1
Date : 08/07/2021

TEST REPORT ON CEMENT CONCRETE CUBES

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name of Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Sample Identification*: C C Cube / 150mmx150mmx150mm / M - 20 / 28 days Compressive Strength
Reference to BIS codes: **Test Method:**
IS 516 : 1959 (RA 2018) Methods Of Tests For Strength Of Concrete Cl.5
Specification:
IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice
Condition of sample: Satisfactory

Compressive strength : Min 20 N/mm2 as per IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive strength of 3 Cubes (N/mm²)
Escorts Engineering Layout											
1	1/1	Ch: 00-208 2nd Cross	M-20	16-Jan-21	13-Feb-21	150*150 *150	22500	8532	495	22.00	21.6
	1/2		M-20	16-Jan-21	13-Feb-21	150*150 *150	22500	8543	475	21.12	
	1/3		M-20	16-Jan-21	13-Feb-21	150*150 *150	22500	8589	485	21.56	
2	1/1	Ch: 00-208 2nd Cross	M-20	19-Jan-21	16-Feb-21	150*150 *150	22500	8446	485	21.56	21.1
	1/2		M-20	19-Jan-21	16-Feb-21	150*150 *150	22500	8492	465	20.67	
	1/3		M-20	19-Jan-21	16-Feb-21	150*150 *150	22500	8435	475	21.12	
3	1/1	Ch: 00-241.20 Main Road LHS	M-20	23-Feb-21	23-Mar-21	150*150 *150	22500	8402	490	21.34	21.3
	1/2		M-20	23-Feb-21	23-Mar-21	150*150 *150	22500	8456	485	21.56	
	1/3		M-20	23-Feb-21	23-Mar-21	150*150 *150	22500	8456	475	21.12	
4	1/1	Ch: 00-241.20 Main Road LHS	M-20	27-Feb-21	27-Mar-21	150*150 *150	22500	8567	470	20.89	21.4
	1/2		M-20	27-Feb-21	27-Mar-21	150*150 *150	22500	8532	480	21.34	
	1/3		M-20	27-Feb-21	27-Mar-21	150*150 *150	22500	8592	495	22.00	
5	1/1	Ch: 00-243.20 Main Road RHS	M-20	06-Feb-21	06-Mar-21	150*150 *150	22500	8595	465	20.67	21.1
	1/2		M-20	06-Feb-21	06-Mar-21	150*150 *150	22500	8435	475	21.12	
	1/3		M-20	06-Feb-21	06-Mar-21	150*150 *150	22500	8531	485	21.56	
6	1/1	Escorts Engineering Layout Ch: 00-241.20 Main Road LHS	M-20	09-Feb-21	09-Mar-21	150*150 *150	22500	8476	490	21.78	21.8
	1/2		M-20	09-Feb-21	09-Mar-21	150*150 *150	22500	8473	495	22.00	
	1/3		M-20	09-Feb-21	09-Mar-21	150*150 *150	22500	8435	485	21.56	

Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive strength of 3 Cubes (N/mm²)
17	1/1	4th Main road LHS @ Ch: 25.20m Culvert	M-20	12-Mar-21	09-Apr-21	150*150 *150	22500	8465	475	21.12	20.8
	1/2		M-20	12-Mar-21	09-Apr-21	150*150 *150	22500	8521	460	20.45	
	1/3		M-20	12-Mar-21	09-Apr-21	150*150 *150	22500	8595	470	20.89	
18	1/1	4th Main Road LHS Ch: 00-102.80	M-20	17-Mar-21	14-Apr-21	150*150 *150	22500	8465	485	21.56	21.1
	1/2		M-20	17-Mar-21	14-Apr-21	150*150 *150	22500	8426	475	21.12	
	1/3		M-20	17-Mar-21	14-Apr-21	150*150 *150	22500	8495	465	20.67	
19	1/1	4th Main Road 2nd Cross LHS Side RHS Ch: 00-48.90	M-20	20-Mar-21	17-Apr-21	150*150 *150	22500	8532	495	22.00	22.3
	1/2		M-20	20-Mar-21	17-Apr-21	150*150 *150	22500	8562	500	22.23	
	1/3		M-20	20-Mar-21	17-Apr-21	150*150 *150	22500	8512	510	22.67	

Remarks:

The tested samples meets the requirements of IS 456 : 2000 with respect to above tests conducted.

1. The test results pertain to the number of samples as furnished by the customer
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate

Prepared By:
Sushma

Tested By:
Ashwini

Gooly Consultancy Services Bangalore

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Project Management Consultancy

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Lab ID : GCS-03-20338-1
Date : 22/04/2021

TEST REPORT OF GRADATION FOR GSB

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name of Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 21/04/2021
Chainage/Location/Land Mark: Industrial area ch:00-369m GO GO International ovt ltd road
Date of testing: 21/04/2021
Reference to BIS codes: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2
Layer: GSB

Oven Dry Wt (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	As per MORTH 5th Revsion Table 400.1 (Garding V)
1	75	0	0	0.00	100.00	100
2	53	215	215	2.15	97.85	80-100
3	26.5	1856	2071	20.71	79.29	55-90
4	9.5	3865	5936	59.36	40.64	35-65
5	4.75	1120	7056	70.56	29.44	25-50
6	2.36	1020	8076	80.76	19.24	10-20
7	0.85	956	9032	90.32	9.68	2-10
8	0.425	856	9888	98.88	1.12	0-5
9	pan	112	10000	100.00	0.00	-

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Prepared By:
Pushpa D B

Tested By:
Ashwini

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Corporate off : No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
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1287

Lab ID : GCS-03-20338-1
Date : 8/5/2021

TEST REPORT OF DETERMINATION OF RATE OF SPREAD PRIMER COAT

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no-03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name of Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: Industrial area ch 00-371.50m Go Go International Pvt Ltd Road
Date of testing: 7/5/2021

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	mt	0.2*0.2	0.2*0.2	0.2*0.2
Area of Plate (a)	Sq.m	0.04	0.04	0.04
Initial Wt of empty Plate (b)	Kg	0.200	0.200	0.200
Final weight of plate after application of prime /Tack Coat (c)	Kg	0.225	0.226	0.227
Weight of Prime/Tack Coat (d=c-b)	Kg	0.025	0.026	0.027
Rate of spread of Prime/tack coat	kg/Sq.m	0.625	0.650	0.675
Average	**kg/Sq.m**	**0.650**		
Specified Limit	**kg/Sq.m**	**0.60 Kg/sq.m for Prime coat**		

Gooly Consultancy Services Bangalore

Contractor/Contractor Representative **Client(AE/AEE/EE)** **PMC**

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Lab ID : GCS-03-20338-1
Date : 17/5/2021

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Name of Client:	Bruhat Bangalore Mahanagara Palike
Address:	Yelahanka Division
Package No:	Package - 03
Name of Work:	Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name of Contractor:	M/s RAM & Co., Bangalore
Name of PMC:	M/s Gooly Consultancy services, Bangalore
Date of Sample Collection:	4/5/2021
Chainage/Location /Land Mark:	Industrial area ch 00-371.50m Go Go International Pvt Ltd Road
Date of testing:	5/5/2021
Type of Mix:	Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477	
3. Weight of Bitumen Extracted, gm	23	
4. Bitumen content in %	4.6	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 477 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	23	4.82	4.82	95.18	90 - 100
19	50	10.48	15.30	84.70	71-95
13.2	80	16.77	32.08	67.92	56-80
4.75	85	17.82	49.90	50.10	38-54
2.36	74	15.51	65.41	34.59	28-42
0.3	86	18.03	83.44	16.56	7-21
0.075	42	8.81	92.24	7.76	2-8

Remarks:
The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Gooly Consultancy Services Bangalore

Prepared By:
Pushpa D B

Tested By:
Ashwini

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Lab ID : GCS-03-20338-1
Date : 17/5/2021

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 08/05/21
Chainage/Location /Land Mark: SFS 407 Ch: 00-279 1st A main road
Date of testing: 08/05/21
Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	475	
3. Weight of Bitumen Extracted, gm	25	
4. Bitumen content in %	5	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 475 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	47	9.89	9.89	90.11	90 - 100
19	79	16.63	26.53	73.47	71-95
13.2	72	15.16	41.68	58.32	56-80
4.75	84	17.68	59.37	40.63	38-54
2.36	43	9.05	68.42	31.58	28-42
0.3	75	15.79	84.21	15.79	7-21
0.075	40	8.42	92.63	7.37	2-8

Remarks:
The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Gooly Consultancy Services Bangalore

Prepared By:
Pushpa D B

Tested By:
Ashwini

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1300

Lab ID : GCS-03-20338-1
Date : 17/5/2021

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Name of Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 11/05/21
Chainage/Location /Land Mark: SFS 407 Ch: 00-188.50 6th main road
Date of testing: 11/05/21
Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477	
3. Weight of Bitumen Extracted, gm	23	
4. Bitumen content in %	4.6	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 477 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	22	4.61	4.61	95.39	90 - 100
19	95	19.92	24.53	75.47	71-95
13.2	74	15.51	40.04	59.96	56-80
4.75	84	17.61	57.65	42.35	38-54
2.36	51	10.69	68.34	31.66	28-42
0.3	79	16.56	84.91	15.09	7-21
0.075	35	7.34	92.24	7.76	2-8

Remarks:
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Prepared By:
Pushpa D B

Tested By:
Ashwini

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Lab ID : GCS-03-20338-1
Date : 01/06/21

TEST REPORT OF DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no-03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: SFS 407 Ch: 00-38 MEC School Road
Date of testing: 22/05/2021

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	mt	0.2*0.2	0.2*0.2	0.2*0.2
Area of Plate (a)	Sq.m	0.04	0.04	0.04
Initial Wt of empty Plate (b)	Kg	0.200	0.200	0.200
Final weight of plate after application of prime /Tack Coat (c)	Kg	0.251	0.252	0.253
Weight of Prime/Tack Coat (d=c-b)	Kg	0.051	0.052	0.053
Rate of spread of Prime/tack coat	kg/Sq.m	0.255	0.260	0.265
Average	**kg/Sq.m**	**0.260**		
Specified Limit	**kg/Sq.m**	**2.5 kg per 10 sqm for Tack coat**		

Gooly Consultancy Services Bangalore

Contractor/Contractor Representative **Client(AE/AEE/EE)** **PMC**

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Lab ID : GCS-03-20338-1
Date : 01/06/21

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: SFS 407 ch 00-210 1stB Main road (kuvempu road)
Date of testing: 15/05/2021
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	471	
3. Weight of Binder Extracted, gm	29	
4. Binder content in %	5.8	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 471 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	41	8.70	8.70	91.30	90 - 100
9.5	58	12.31	21.02	78.98	70-88
4.75	96	20.38	41.40	58.60	53-71
2.36	67	14.23	55.63	44.37	42-58
1.18	42	8.92	64.54	35.46	34-48
0.6	42	8.92	73.46	26.54	26-38
0.3	30	6.37	79.83	20.17	18-28
0.15	25	5.31	85.14	14.86	12-20
0.075	23	4.88	90.02	9.98	4-10

Remarks:
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Prepared By: Pushpa D B

Tested By: Ashwini

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Lab ID : GCS-03-20338-1
Date : 01/06/21

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: SFS 407 ch 00-36.50 road from bldg 170-172 puzzle technologies
Date of testing: 21/05/2021
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	471	
3. Weight of Binder Extracted, gm	29	
4. Binder content in %	5.8	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 471 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	40	8.49	8.49	91.51	90 - 100
9.5	56	11.89	20.38	79.62	70-88
4.75	95	20.17	40.55	59.45	53-71
2.36	68	14.44	54.99	45.01	42-58
1.18	43	9.13	64.12	35.88	34-48
0.6	41	8.70	72.82	27.18	26-38
0.3	32	6.79	79.62	20.38	18-28
0.15	24	5.10	84.71	15.29	12-20
0.075	25	5.31	90.02	9.98	4-10

Remarks:
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Prepared By:
Pushpa D B

Tested By:
Ashwini

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Lab ID : GCS-03-20338-1
Date : 01/06/21

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: SFS 407 ch 00-36.50 road from bldg 170-172 puzzle technologies
Date of testing: 21/05/2021
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	474	
3. Weight of Binder Extracted, gm	26	
4. Binder content in %	5.2	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 474 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	41	8.65	8.65	91.35	90 - 100
9.5	58	12.24	20.89	79.11	70-88
4.75	96	20.25	41.14	58.86	53-71
2.36	67	14.14	55.27	44.73	42-58
1.18	42	8.86	64.14	35.86	34-48
0.6	42	8.86	73.00	27.00	26-38
0.3	30	6.33	79.32	20.68	18-28
0.15	25	5.27	84.60	15.40	12-20
0.075	23	4.85	89.45	10.55	4-10

Remarks:
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Prepared By: Pushpa D B

Tested By: Ashwini

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1310

Lab ID : GCS-03-20338-1
Date : 01/06/21

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: SFS 407 Ch: 00-38 MEC school road
Date of testing: 22/05/2021
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472	
3. Weight of Binder Extracted, gm	28	
4. Binder content in %	5.6	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	44	9.32	9.32	90.68	90 - 100
9.5	51	10.81	20.13	79.87	70-88
4.75	77	16.31	36.44	63.56	53-71
2.36	65	13.77	50.21	49.79	42-58
1.18	44	9.32	59.53	40.47	34-48
0.6	52	11.02	70.55	29.45	26-38
0.3	36	7.63	78.18	21.82	18-28
0.15	42	8.90	87.08	12.92	12-20
0.075	20	4.24	91.31	8.69	4-10

Remarks:
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Prepared By:
Pushpa D B

Tested By:
Ashwini

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Lab ID : GCS-03-20338-1
Date : 01/06/21

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 03
Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)
Name Contractor: M/s RAM & Co., Bangalore
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: SFS 407 Ch: 00-188.50 6th main road
Date of testing: 24/05/2021
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	471	
3. Weight of Binder Extracted, gm	29	
4. Binder content in %	5.8	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 471 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	32	6.79	6.79	93.21	90 - 100
9.5	87	18.47	25.27	74.73	70-88
4.75	95	20.17	45.44	54.56	53-71
2.36	59	12.53	57.96	42.04	42-58
1.18	34	7.22	65.18	34.82	34-48
0.6	30	6.37	71.55	28.45	26-38
0.3	31	6.58	78.13	21.87	18-28
0.15	35	7.43	85.56	14.44	12-20
0.075	30	6.37	91.93	8.07	4-10

Remarks:
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Prepared By:
Pushpa D B

Tested By:
Ashwini

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Lab ID : GCS-03-20338-1

Date : 01/06/21

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 03

Name of Work: Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Name Contractor: M/s RAM & Co., Bangalore

Name of PMC: M/s Gooly Consultancy services, Bangalore

Chainage/Location /Land Mark: SFS 407 Ch: 00-181.50 2nd B main road - SL Byrappa road

Date of testing: 25/05/2021

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	470	
3. Weight of Binder Extracted, gm	30	
4. Binder content in %	6.0	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 470 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	44	9.36	9.36	90.64	90 - 100
9.5	51	10.85	20.21	79.79	70-88
4.75	77	16.38	36.60	63.40	53-71
2.36	65	13.83	50.43	49.57	42-58
1.18	44	9.36	59.79	40.21	34-48
0.6	52	11.06	70.85	29.15	26-38
0.3	36	7.66	78.51	21.49	18-28
0.15	42	8.94	87.45	12.55	12-20
0.075	20	4.26	91.70	8.30	4-10

Remarks:

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Prepared By:

Tested By:

Gooly Consultancy Services Bangalore

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head In Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet

Second and Final bill

Item No. 1

Item Name: Removing and resetting of footpath slab

Sl No.	CHAINAGE / Land Mark	No	Length (m)	Width (m) Start(B1)	Width (m) End (B2)	Avg. Width	Depth (m)	Qty	Remarks	Rate	Amount
	Vide Premeasurement Page No.							17037.76			
							Qty as per revised Estimate	17038.60			
							Qty Paid previously	13892.80			
							Qty to be paid in this bill	3144.96	Sqm	219.26	689564

Contractor representative

Consultant representative

Goely Consultancy Services Bangalore

Assistant Engineer

7/4/2021

Assistant Executive Engineer

7/04/2021

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no-03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	1								
Item Name	Removing and resetting of footpath slab								
Pre Measurements recorded on									
Sl No.	CHAINAGE / Land Mark		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks	
	First & Part Bill								
	SFS 407								
	Ch: 00-200 3rd Main Road								
	0.00	30.00		2	30	1.20		72.00	
	30.00	60.00		2	30	1.20		72.00	
	60.00	90.00		2	30	1.20		72.00	
	90.00	120.00		2	30	1.20		72.00	
	120.00	150.00		2	30	1.20		72.00	
	150.00	170.00		2	20	1.20		48.00	
	Ch: 200-380 3rd Main Road								
	200.00	230.00		2	30	1.20		72.00	
	230.00	260.00		2	30	1.20		72.00	
	260.00	290.00		2	30	1.20		72.00	
	290.00	320.00		2	30	1.20		72.00	
	320.00	350.00		2	30	1.20		72.00	
	350.00	353.00		2	3	1.20		7.20	
	Ch: 380-530 3rd Main Road								
	380.00	410.00		2	30	1.20		72.00	
	410.00	440.00		2	30	1.20		72.00	
	440.00	470.00		2	30	1.20		72.00	
	470.00	500.00		2	30	1.20		72.00	
	500.00	507.00		2	7	1.20		16.80	
	Ch: 00-170 Connecting Road								
	0.00	30.00		2	30	1.00		60.00	
	30.00	60.00		2	30	1.00		60.00	
	60.00	90.00		2	30	1.00		60.00	

Sl No.	CHAINAGE		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	Land Mark							
	90.00	120.00	2	30	1.00		60.00	
	120.00	144.00	2	24	1.00		48.00	
	Ch: 00-260 2nd Main Road (Link Road)							
	0.00	30.00	2	30	1.00		60.00	
	30.00	60.00	2	30	1.00		60.00	
	60.00	90.00	2	30	1.00		60.00	
	90.00	120.00	2	30	1.00		60.00	
	120.00	150.00	2	30	1.00		60.00	
	150.00	180.00	2	30	1.00		60.00	
	180.00	210.00	2	30	1.00		60.00	
	210.00	221.00	2	11	1.00		22.00	
	Ch: 00-215 4th Main Road							
	0.00	30.00	2	30	1.20		72.00	
	30.00	60.00	2	30	1.20		72.00	
	60.00	90.00	2	30	1.20		72.00	
	90.00	120.00	2	30	1.20		72.00	
	120.00	150.00	2	30	1.20		72.00	
	150.00	180.00	2	30	1.20		72.00	
	180.00	183.00	2	3	1.20		7.20	
	Ch: 215-515 4th Main Road							
	215.00	245.00	2	30	1.20		72.00	
	245.00	275.00	2	30	1.20		72.00	
	275.00	305.00	2	30	1.20		72.00	
	305.00	335.00	2	30	1.20		72.00	
	335.00	365.00	2	30	1.20		72.00	
	365.00	395.00	2	30	1.20		72.00	
	395.00	425.00	2	30	1.20		72.00	
	425.00	455.00	2	30	1.20		72.00	
	455.00	470.00	2	15	1.20		36.00	
	Ch: 515-690 4th Main Road							
	515.00	545.00	2	30	1.20		72.00	
	545.00	575.00	2	30	1.20		72.00	
	575.00	605.00	2	30	1.20		72.00	
	605.00	635.00	2	30	1.20		72.00	
	635.00	664.00	2	29	1.20		69.60	
	Ch: 00-175 2nd B Main Road (SL Byrappa Road)							
	0.00	30.00	2	30	0.90		54.00	
	30.00	60.00	2	30	0.90		54.00	
	60.00	90.00	2	30	0.90		54.00	
	90.00	120.00	2	30	0.90		54.00	
	120.00	149.00	2	29	0.90		52.20	
	Ch: 00-200 2nd Main Road (Shivarama Karanth Road)							

Land Mark		No		Length (m)	Width (m)	Depth (m)	Qty	Remarks
0.00	30.00		1	30	1.20		36.00	
30.00	38.70		1	9	1.20		10.44	
38.70	54.70		1	16	1.20		19.20	
54.70	60.00		1	5	1.20		6.36	
60.00	90.00		1	30	1.20		36.00	
90.00	120.00		1	30	1.20		36.00	
120.00	150.00		1	30	1.20		36.00	
150.00	180.00		1	30	1.20		36.00	
180.00	188.50		1	9	1.20		10.20	
Ch: 00-181.50 2nd B Main Road - SL Byrappa Road								
0.00	30.00		1	30	1.20		36.00	
30.00	60.00		1	30	1.20		36.00	
60.00	90.00		1	30	1.20		36.00	
90.00	120.00		1	30	1.20		36.00	
120.00	150.00		1	30	1.20		36.00	
150.00	180.00		1	30	1.20		36.00	
Ch: 00-75.70 SWWC Road - 1st Main Road								
0.00	30.00		1	30	1.20		36.00	
30.00	60.00		1	30	1.20		36.00	
60.00	75.70		1	16	1.20		18.84	
						Total Qty	17037.76	
						BOQ Qty	17038.60	
						Qty already paid in RA Bill No.1 & Part	13892.80	
						Qty to be paid in this bill	3144.96	**Sq.m**

Contractor representative

Consultant representative

Assistant Engineer

7/4/2021

Assistant Executive Engineer

...pment head In Chief Minister Nava Nagarothan grants of Yelahanka division.
(Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet

Second and Final bill

Item No.	2
Item Name	Removing and resetting of kerb stone

Sl No.	CHAINAGE Land Mark	No	Length (m)	Width (m) Start(B1)	Width (m) End (B2)	Avg Width	Depth (m)	Qty	Remarks	Rate	Amount
	Vide Premeasurement Page No.										
								13611.20			
							Qty as per revised Estimate	13612.00			
							Qty Paid previously	6488.00			
							Qty to be paid in this bill	7123.20	m	110.19	784905

Contractor representative

Consultancy Services Bangalore Goely

Consultant representative

Assistant Engineer

15/4/2021

Assistant Executive Engineer

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Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package - 03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	2	
Item Name	Removing and resetting of kerb stone	

Pre Measurements recorded on

Sl No.	CHAINAGE / Land Mark		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	First & Part Bill							
	SFS 407							
	Ch: 00-200 3rd Main Road							
	0.00	30.00		2	30		60.00	
	30.00	60.00		2	30		60.00	
	60.00	90.00		2	30		60.00	
	90.00	120.00		2	30		60.00	
	120.00	150.00		2	30		60.00	
	150.00	170.00		2	20		40.00	
	Ch: 200-380 3rd Main Road							
	200.00	230.00		2	30		60.00	
	230.00	260.00		2	30		60.00	
	260.00	290.00		2	30		60.00	
	290.00	320.00		2	30		60.00	
	320.00	350.00		2	30		60.00	
	350.00	353.00		2	3		6.00	
	Ch: 380-530 3rd Main Road							
	380.00	410.00		2	30		60.00	
	410.00	440.00		2	30		60.00	
	440.00	470.00		2	30		60.00	
	470.00	500.00		2	30		60.00	
	500.00	507.00		2	7		14.00	
	Ch: 00-170 Connecting Road							
	0.00	30.00		2	30		60.00	
	30.00	60.00		2	30		60.00	
	60.00	90.00		2	30		60.00	
	90.00	120.00		2	30		60.00	
	120.00	144.00		2	24		48.00	
	Ch: 00-260 2nd Main Road (Link Road)							
	0.00	30.00		2	30		60.00	
	30.00	60.00		2	30		60.00	
	60.00	90.00		2	30		60.00	
	90.00	120.00		2	30		60.00	

Sl No.	CHAINAGE Land Mark		No		Length (m)	Width (m)	Depth (m)	Qty	Remarks
	30.00	60.00		2	30			60.00	
	60.00	90.00		2	30			60.00	
	90.00	120.00		2	30			60.00	
	120.00	150.00		2	30			60.00	
	150.00	180.00		2	30			60.00	
	180.00	210.00		2	30			60.00	
	210.00	240.00		2	30			60.00	
	240.00	270.00		2	30			60.00	
	270.00	300.00		2	30			60.00	
	300.00	330.00		2	30			60.00	
	330.00	360.00		2	30			60.00	
	360.00	390.00		2	30			60.00	
	390.00	420.00		2	30			60.00	
	420.00	427.00		2	7			14.00	
	Ch: 00-360 Canara Bank Front Road								
	0.00	30.00		1	30			30.00	
	30.00	60.00		1	30			30.00	
	60.00	90.00		1	30			90.00	
	90.00	120.00		1	30			30.00	
	120.00	150.00		1	30			30.00	
	150.00	180.00		1	30			30.00	
	180.00	210.00		1	30			30.00	
	210.00	240.00		1	30			30.00	
	240.00	270.00		1	30			30.00	
	270.00	300.00		1	30			30.00	
	300.00	330.00		1	30			30.00	
	330.00	352.00		1	22			22.00	
							Total Qty	13611.20	
							BOQ Qty	13612.00	
							Qty already paid in RA Bill No.1 & Part	6488.00	
							Qty to be paid in this bill	7123.20	m

Contractor representative

Consultant representative

Assistant Engineer

15/4/2021

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	8	
Item Name	Providing and fixing precast reinforced concrete slab 10cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm c/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials(data rate enclosed)	

Pre Measurements recorded on

Sl No.	CHAINAGE Land Mark		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	First & Part Bill							
	Damaged portion of Drain							
	SFS 407							
	Ch: 00-200 3rd Main Road							
	0.00	30.00		2	30	1.20	72.00	
	Ch: 200-380 3rd Main Road							
	200.00	227.00		2	27	1.20	64.80	
	Ch: 380-530 3rd Main Road							
	380.00	403.00		2	23	1.20	55.20	
	Ch: 00-170 Connecting Road							
	0.00	26.00		2	26	1.00	52.00	
	Ch: 00-260 2nd Main Road (Link Road)							
	0.00	30.00		2	30	1.00	60.00	
	30.00	39.00		2	9	1.00	18.00	
	Ch: 00-215 4th Main Road							
	0.00	30.00		2	30	1.20	72.00	
	30.00	32.00		2	2	1.20	4.80	

Sl No.	CHAINAGE Land Mark		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	Second & Final Bill							
	Escorts Engineering Layout							
	Ch: 00-208 2nd Cross							
	0.00	30.00	1	30	0.90		27.00	
	30.00	60.00	1	30	0.90		27.00	
	60.00	90.00	1	30	0.90		27.00	
	90.00	120.00	1	30	0.90		27.00	
	120.00	150.00	1	30	0.90		27.00	
	150.00	180.00	1	30	0.90		27.00	
	180.00	208.00	1	28	0.90		25.20	
	Ch: 00-241.20 Main Road LHS							
	0.00	30.00	1	30	0.90		27.00	
	30.00	60.00	1	30	0.90		27.00	
	60.00	90.00	1	30	0.90		27.00	
	90.00	120.00	1	30	0.90		27.00	
	120.00	150.00	1	30	0.90		27.00	
	150.00	180.00	1	30	0.90		27.00	
	180.00	210.00	1	30	0.90		27.00	
	210.00	240.00	1	30	0.90		27.00	
	240.00	241.20	1	1.2	0.90		1.08	
	Ch: 00-243.20 Main Road RHS							
	0.00	30.00	1	30	0.90		27.00	
	30.00	60.00	1	30	0.90		27.00	
	60.00	90.00	1	30	0.90		27.00	
	90.00	120.00	1	30	0.90		27.00	
	120.00	150.00	1	30	0.90		27.00	
	150.00	180.00	1	30	0.90		27.00	
	180.00	210.00	1	30	0.90		27.00	
	210.00	240.00	1	30	0.90		27.00	
	240.00	243.20	1	3.2	0.90		2.88	
	Santosh Nagara							
	4th Main Road LHS Ch: 00-102.80							
	0.00	25.20	1	25.20	0.90		22.68	
	31.50	59.70	1	28.20	0.90		25.38	
	84.50	102.80	1	18.30	0.90		16.47	
	4th Main Road RHS Ch: 00-78.00							

Sl No.	DRAINAGE Land Mark			No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	30.00	60.00		2	30.00	0.90		54.00	
	60.00	90.00		2	30.00	0.90		54.00	
	90.00	103.00		2	13.00	0.90		23.40	
	2nd Cross Road LHS Ch: 00-260.70								
	0.00	30.00		2	30.00	0.90		54.00	
	30.00	55.00		2	25.00	0.90		45.00	
	63.80	90.00		2	26.20	0.90		47.16	
	90.00	120.00		2	30.00	0.90		54.00	
	120.00	125.90		2	5.90	0.90		10.62	
	197.70	210.00		2	12.30	0.90		22.14	
	210.00	240.00		2	30.00	0.90		54.00	
	240.00	260.70		2	20.70	0.90		37.26	
	5th Main Road Ch: 00-15.00								
	0.00	15.00		1	15.00	0.90		13.50	
	Damaged/Missing Cover Slab								
	SFS 407 & Sorrounding areas								
	0.00	30.00		2	30.00	0.90		54.00	
	30.00	60.00		2	30.00	0.90		54.00	
	60.00	90.00		2	30.00	0.90		54.00	
	90.00	120.00		2	30.00	0.90		54.00	
	120.00	150.00		2	30.00	0.90		54.00	
	150.00	180.00		2	30.00	0.90		54.00	
	180.00	210.00		2	30.00	0.90		54.00	
	210.00	240.00		2	30.00	0.90		54.00	
	240.00	270.00		2	30.00	0.90		54.00	
	270.00	300.00		2	30.00	0.90		54.00	
	Yelehanka Newtown 4th Phase & Sorrounding areas								
	0.00	30.00		2	30.00	0.90		54.00	
	30.00	60.00		2	30.00	0.90		54.00	
	60.00	90.00		2	30.00	0.90		54.00	
	90.00	120.00		2	30.00	0.90		54.00	
	120.00	150.00		2	30.00	0.90		54.00	
	150.00	180.00		2	30.00	0.90		54.00	
	180.00	210.00		2	30.00	0.90		54.00	
	210.00	240.00		2	30.00	0.90		54.00	
	240.00	248.50		2	8.50	0.90		15.30	

Sl No.	CHAINAGE Land Mark	No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
					Total Qty	**4620.90**	
					BOQ Qty	**4621.70**	
					Qty already paid in RA Bill No.1 & Part	**1990.20**	
					Qty to be paid in this bill	**2630.70**	**Sq.m**

Contractor representative

Consultant representative

Assistant Engineer

24/4/2021

Assistant Executive Engineer

Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head In Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet

Second and Final bill

Item No: 9

Item Name: Providing and laying precast drain cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm downsize metal with steel reinforcement including form work, lift charges, curing and concrete finished surfaces on both sides etc. complete and as per drawing and direction of Engineer-in-charge of work (data rate enclosed)

Sl No.	CHAINAGE Land Mark	No	Length (m)	Width (m) Start(B1)	Width (m) End (B2)	Avg Width	Depth (m)	Qty	Remarks	Rate	Amount
	Vide Premeasurement Page No.							122.40			
	Qty as per revised Estimate							122.40			
	Qty Paid previously							45.00			
	Qty to be paid in this bill							77.40	Sqm	5688.90	440321

Contractor representative

Consultant representative

Goolly Consultancy Services Bangalore

Assistant Engineer

30/4/2021

Assistant Executive Engineer

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Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	9	
Item Name	Providing and laying precast drain cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm downsize metal with steel reinforcement including form work, lift charges, curing and concrete finished surfaces on both sides etc. complete and as per drawing and direction of Engineer-in-charge of work (data rate enclosed)	

Pre Measurements recorded on							
Sl No.	CHAINAGE / Land Mark	No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	First & Part Bill						
	SFS 407 New Culvert						
	Cross Road-1		1	7.5	1.20	9.00	
	Cross Road-2		1	7.5	1.20	9.00	
	Yelehanka Newtown 4th Phase New Culvert						
	Cross Road-1		1	7.5	1.20	9.00	
	Cross Road-2		1	7.5	1.20	9.00	
	Cross Road-3		1	7.5	1.20	9.00	
	Second & Final Bill						
	Escorts Engineering Layout New Culverts						
	2nd Cross		1	6.3	1.20	7.56	
	2nd Cross		1	6.2	1.20	7.44	
	Main Road LHS		1	5.2	1.20	6.24	
	Main Road RHS		1	6.4	1.20	7.68	
	Santosh Nagara Culverts						
	4th Main road LHS @ Ch: 25.20m		1	6.3	1.20	7.56	

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	10	
Item Name	Providing and fixing Precast solid concrete kerb stones of size 450 x 200 x 400mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc. complete as per specifications and as per directions of Engineer in charge of work	
Pre Measurements recorded on		

Sl No.	CHAINAGE / Land Mark		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	First & Part Bill							
	New Kerb							
	Yelehanka Newtown 4th Phase							
	Ch: 00-36 1st B Main LHS							
	0.00	30.00		1	30	0.45	67	
	30.00	60.00		1	30	0.45	67	
	60.00	90.00		1	30	0.45	67	
	90.00	120.00		1	30	0.45	67	
	120.00	150.00		1	30	0.45	67	
	150.00	180.00		1	30	0.45	67	
	180.00	210.00		1	30	0.45	67	
	210.00	230.50		1	20.5	0.45	46	
	Ch: 00-36 1st Main 2nd Cross LHS							
	0.00	30.00		1	30	0.45	67	
	30.00	57.80		1	27.8	0.45	62	
	Ch: 00-36 1st Main 2nd Cross RHS							
	0.00	30.00		1	30	0.45	67	
	30.00	36.00		1	6	0.45	13	
	Ch: 00-40 Girls Hostel road							

Sl No.	CHAINAGE Land Mark		No		Length (m)	Width (m)	Depth (m)	Qty	Remarks
	0.00	30.00		1	30	0.45		67	
	30.00	40.00		1	10	0.45		22	
	Ch: 00-150 SB College								
	0.00	30.00		1	30	0.45		67	
	30.00	60.00		1	30	0.45		67	
	60.00	90.00		1	30	0.45		67	
	90.00	120.00		1	30	0.45		67	
	120.00	122.00		1	2	0.45		4	
	Ch: 00-109 BMTC Bus stop side road								
	0.00	30.00		1	30	0.45		67	
	30.00	60.00		1	30	0.45		67	
	60.00	90.00		1	30	0.45		67	
	90.00	109.00		1	19	0.45		42	
	Second & Final Bill								
	Escorts Engineering Layout								
	Ch: 00-208 2nd Cross								
	0.00	30.00		1	30	0.45		67	
	30.00	60.00		1	30	0.45		67	
	60.00	90.00		1	30	0.45		67	
	90.00	120.00		1	30	0.45		67	
	120.00	150.00		1	30	0.45		67	
	150.00	180.00		1	30	0.45		67	
	180.00	208.00		1	28	0.45		62	
	Ch: 00-241.20 Main Road LHS								
	0.00	30.00		1	30	0.45		67	
	30.00	60.00		1	30	0.45		67	
	60.00	90.00		1	30	0.45		67	
	90.00	120.00		1	30	0.45		67	
	120.00	150.00		1	30	0.45		67	
	150.00	180.00		1	30	0.45		67	
	180.00	210.00		1	30	0.45		67	
	210.00	240.00		1	30	0.45		67	
	240.00	241.20		1	1.2	0.45		3	
	Ch: 00-243.20 Main Road RHS								
	0.00	30.00		1	30	0.45		67	
	30.00	60.00		1	30	0.45		67	

Sl No.	CHAINAGE		No		Length (m)	Width (m)	Depth (m)	Qty	Remarks
	Land Mark								
	60.00	90.00		1	30	0.45		67	
	90.00	120.00		1	30	0.45		67	
	120.00	150.00		1	30	0.45		67	
	150.00	180.00		1	30	0.45		67	
	180.00	210.00		1	30	0.45		67	
	210.00	240.00		1	30	0.45		67	
	240.00	243.20		1	3.2	0.45		7	
	Ch: 00-322 U Shape								
	0.00	30.00		1	30	0.45		67	
	30.00	60.00		1	30	0.45		67	
	60.00	90.00		1	30	0.45		67	
	90.00	120.00		1	30	0.45		67	
	120.00	150.00		1	30	0.45		67	
	150.00	180.00		1	30	0.45		67	
	180.00	210.00		1	30	0.45		67	
	210.00	240.00		1	30	0.45		67	
	240.00	270.00		1	30	0.45		67	
	270.00	300.00		1	30	0.45		67	
	300.00	322.00		1	22	0.45		49	
	Santosh Nagara								
	4th Main Road LHS Ch: 00-102.80								
	0.00	25.20		1	25.20	0.45			
	31.50	60.00		1	28.50	0.45		63	
	60.00	90.00		1	30.00	0.45		67	
	90.00	102.80		1	12.80	0.45		28	
	4th Main Road RHS Ch: 00-78.00								
	0.00	30.00		1	30.00	0.45		67	
	30.00	35.50		1	5.50	0.45		12	
	42.20	72.10		1	29.90	0.45		66	
	4th Main Road 3rd Cross LHS Side LHS Ch: 00-39.20								
	0.00	21.10		1	21.10	0.45		47	
	30.60	39.20		1	8.60	0.45		19	
	4th Main Road 3rd Cross LHS Side RHS Ch: 00-56.30								
	0.00	30.00		1	30.00	0.45		67	
	30.00	56.30		1	26.30	0.45		58	
	4th Main Road 3rd Cross RHS Side LHS Ch: 00-8.30								

Sl No.	CHAINAGE Land Mark		No		Length (m)	Width (m)	Depth (m)	Qty	Remarks
	0.00	8.30		1	8.30	0.45		18	
	4th Main Road 2nd Cross LHS Side LHS Ch: 00-57.00								
	0.00	30.00		1	30.00	0.45		67	
	30.00	57.00		1	27.00	0.45		60	
	4th Main Road 2nd Cross LHS Side RHS Ch: 00-48.90								
	0.00	8.90		1	8.90	0.45		20	
	17.20	30.00		1	12.80	0.45		28	
	30.00	48.90		1	18.90	0.45		42	
	4th Main Road 2nd Cross RHS Ch: 00-29.70								
	0.00	29.70		2	29.70	0.45		132	
	4th Main Road 1st Cross LHS Ch: 00-109.40								
	0.00	30.00		1	30.00	0.45		67	
	30.00	58.10		1	28.10	0.45		62	
	65.10	90.00		1	24.90	0.45		55	
	90.00	109.40		1	19.40	0.45		43	
	4th Main Road 1st Cross RHS Ch: 00-98.30								
	0.00	30.00		1	30.00	0.45		67	
	30.00	60.00		1	30.00	0.45		67	
	60.00	90.00		1	30.00	0.45		67	
	90.00	98.30		1	8.30	0.45		18	
	3rd Main Road Ch: 00-103.00								
	0.00	30.00		2	30.00	0.45		133	
	30.00	60.00		2	30.00	0.45		133	
	60.00	90.00		2	30.00	0.45		133	
	90.00	103.00		2	13.00	0.45		58	
	2nd Cross Road LHS Ch: 00-260.70								
	0.00	30.00		2	30.00	0.45		133	
	30.00	55.00		2	25.00	0.45		111	
	63.80	90.00		2	26.20	0.45		116	
	90.00	120.00		2	30.00	0.45		133	
	120.00	125.90		2	5.90	0.45		26	
	197.70	210.00		2	12.30	0.45		55	
	210.00	240.00		2	30.00	0.45		133	

Sl No.	CHAINAGE / Land Mark	No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
					Total Qty	**9500**	
					BOQ Qty	**9502**	
					Qty already paid in RA Bill No.1 & Part	**1404**	
					Qty to be paid in this bill	**8095**	**Nos**

Contractor representative

Consultant representative

Assistant Engineer

7/5/2021

Assistant Executive Engineer

7/05/2021

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	24	
Item Name	Providing and laying bituminous concrete 40mm thick with hot mix plant using 40-60 TPH capacity HMP with mechanical paver grading -II (30-45 mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crused aggregates of specified grading premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all aspects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015	

Pre Measurements recorded on

Sl No.	CHAINAGE Land Mark		No	Length (m)	Width B1 (m)	Width B2 (m)	Avg. Width (m)	Depth (m)	Qty	Remarks
	First & Part Bill									
	Attur Layout Ch: 00-228									
	0.00	30.00	1	30.0	4.30	4.40	4.35	0.04	5.22	
	30.00	60.00	1	30.0	4.40	4.35	4.38	0.04	5.25	
	60.00	90.00	1	30.0	4.35	4.38	4.37	0.04	5.24	
	90.00	120.00	1	30.0	4.38	4.42	4.40	0.04	5.28	
	120.00	150.00	1	30.0	4.42	4.35	4.39	0.04	5.26	
	150.00	180.00	1	30.0	4.35	4.39	4.37	0.04	5.24	
	180.00	207.00	1	27.0	4.39	4.37	4.38	0.04	4.73	
	207.00	228.00	1	21.0	4.37	5.40	4.89	0.04	4.10	
	BC Overlay									
	SFS 208									
	Ch: 00-315 2nd Cross road									
	0.00	30.00	1	30.0	8.10	9.10	8.60	0.04	10.32	
	30.00	60.00	1	30.0	9.10	9.20	9.15	0.04	10.98	
	60.00	90.00	1	30.0	9.20	6.80	8.00	0.04	9.60	
	90.00	120.00	1	30.0	6.80	10.15	8.48	0.04	10.17	
	120.00	150.00	1	30.0	10.15	8.25	9.20	0.04	11.04	
	150.00	160.00	1	10.0	8.25	9.95	9.10	0.04	3.64	
	160.00	170.00	1	10.0	9.95	12.15	11.05	0.04	4.42	
	170.00	180.00	1	10.0	12.15	15.00	13.58	0.04	5.43	
	180.00	185.00	1	5.0	15.00	19.40	17.20	0.04	3.44	
	185.00	190.00	1	5.0	19.40	15.30	17.35	0.04	3.47	
	190.00	195.00	1	5.0	15.30	11.60	13.45	0.04	2.69	
	195.00	200.00	1	5.0	11.60	9.40	10.50	0.04	2.10	
	200.00	230.00	1	30.0	9.40	9.80	9.60	0.04	11.52	
	230.00	240.00	1	10.0	9.80	12.60	11.20	0.04	4.48	

No.	Land Mark		No		Length (m)	Width		Avg. Width (m)	Depth (m)	Qty	Remarks
						B1 (m)	B2 (m)				
	30.00	60.00		1	30.0	7.40	7.50	7.45	0.04	8.94	
	60.00	90.00		1	30.0	7.50	7.40	7.45	0.04	8.94	
	90.00	120.00		1	30.0	7.40	7.20	7.30	0.04	8.76	
	120.00	150.00		1	30.0	7.20	7.30	7.25	0.04	8.70	
	150.00	180.00		1	30.0	7.30	7.00	7.15	0.04	8.58	
	180.00	210.00		1	30.0	7.00	7.40	7.20	0.04	8.64	
	210.00	240.00		1	30.0	7.40	7.40	7.40	0.04	8.88	
	240.00	270.00		1	30.0	7.40	7.40	7.40	0.04	8.88	
	270.00	300.00		1	30.0	7.40	7.30	7.35	0.04	8.82	
	300.00	330.00		1	30.0	7.30	7.00	7.15	0.04	8.58	
	330.00	360.00		1	30.0	7.00	6.90	6.95	0.04	8.34	
	360.00	371.50		1	11.5	6.90	11.10	9.00	0.04	4.14	
	SFS 208										
	Ch: 00-41m Maruti Suzuki Showroom Opposite Road										
	0.00	10.00		1	10.0	15.30	13.70	14.50	0.04	5.80	
	10.00	20.00		1	10.0	13.70	9.50	11.60	0.04	4.64	
	20.00	30.00		1	10.0	9.50	9.40	9.45	0.04	3.78	
	30.00	41.00		1	11.0	9.40	9.60	9.50	0.04	4.18	
	SFS 407										
	Ch: 00-210 1st B Main road (Kuvempu Road)										
	0.00	30.00		1	30.0	6.00	4.50	5.25	0.04	6.30	
	30.00	60.00		1	30.0	4.50	5.00	4.75	0.04	5.70	
	60.00	90.00		1	30.0	5.00	4.80	4.90	0.04	5.88	
	90.00	120.00		1	30.0	4.80	4.85	4.83	0.04	5.79	
	120.00	150.00		1	30.0	4.85	5.00	4.93	0.04	5.91	
	150.00	180.00		1	30.0	5.00	4.60	4.80	0.04	5.76	
	180.00	210.00		1	30.0	4.60	4.75	4.68	0.04	5.61	
	Ch: 00-279 1st A Main road										
	0.00	30.00		1	30.0	4.20	4.70	4.45	0.04	5.34	
	30.00	60.00		1	30.0	4.70	4.70	4.70	0.04	5.64	
	60.00	90.00		1	30.0	4.70	4.80	4.75	0.04	5.70	
	90.00	114.70		1	24.7	4.80	5.40	5.10	0.04	5.04	Road cross
	120.00	150.00		1	30.0	5.40	4.55	4.98	0.04	5.97	
	150.00	180.00		1	30.0	4.55	4.50	4.53	0.04	5.43	
	180.00	210.00		1	30.0	4.50	4.10	4.30	0.04	5.16	
	210.00	240.00		1	30.0	4.10	4.30	4.20	0.04	5.04	
	240.00	270.00		1	30.0	4.30	5.45	4.88	0.04	5.85	
	270.00	279.00		1	9.0	5.45	6.00	5.73	0.04	2.06	
	Ch: 00-69 1st A Main road 2nd Cross										
	0.00	30.00		1	30.0	8.10	4.90	6.50	0.04	7.80	
	30.00	60.00		1	30.0	4.90	5.10	5.00	0.04	6.00	
	60.00	69.00		1	9.0	5.10	4.80	4.95	0.04	1.78	
	Ch: 00-323.50 SB College Road										
	0.00	30.00		1	30.0	8.50	8.10	8.30	0.04	9.96	
	30.00	60.00		1	30.0	8.10	7.80	7.95	0.04	9.54	
	60.00	90.00		1	30.0	7.80	7.55	7.68	0.04	9.21	
	90.00	120.00		1	30.0	7.55	8.30	7.93	0.04	9.51	
	120.00	150.00		1	30.0	8.30	7.90	8.10	0.04	9.72	
	150.00	180.00		1	30.0	7.90	8.80	8.35	0.04	10.02	
	180.00	210.00		1	30.0	8.80	8.70	8.75	0.04	10.50	

No.	Land Mark		No	Length (m)	Width B1 (m)	Width B2 (m)	Avg. Width (m)	Depth (m)	Qty	Remarks
	210.00	240.00	1	30.0	8.70	8.80	8.75	0.04	10.50	
	240.00	270.00	1	30.0	8.80	8.60	8.70	0.04	10.44	
	270.00	300.00	1	30.0	8.60	8.40	8.50	0.04	10.20	
	300.00	323.50	1	23.5	8.40	9.70	9.05	0.04	8.51	
	Ch: 00-128.60 SB College opposite Road Adjacent to KHB HIG-A5 Building									
	0.00	30.00	1	30.0	8.80	9.00	8.90	0.04	10.68	
	30.00	60.00	1	30.0	9.00	8.80	8.90	0.04	10.68	
	60.00	90.00	1	30.0	8.80	8.55	8.68	0.04	10.41	
	90.00	120.00	1	30.0	8.55	9.50	9.03	0.04	10.83	
	120.00	128.60	1	8.6	9.50	9.80	9.65	0.04	3.32	
	Ch: 00-150 Subbu Bakery Side road - 3rd Main Road									
	0.00	30.00	1	30.0	7.40	7.20	7.30	0.04	8.76	
	30.00	60.00	1	30.0	7.20	7.25	7.23	0.04	8.67	
	60.00	90.00	1	30.0	7.25	7.10	7.18	0.04	8.61	
	90.00	120.00	1	30.0	7.10	7.30	7.20	0.04	8.64	
	120.00	150.00	1	30.0	7.30	8.00	7.65	0.04	9.18	
	Ch: 00-150 3rd Main Road (B.M Shree Road)									
	0.00	30.00	1	30.0	7.00	8.00	7.50	0.04	9.00	
	30.00	60.00	1	30.0	8.00	7.20	7.60	0.04	9.12	
	60.00	90.00	1	30.0	7.20	7.85	7.53	0.04	9.03	
	90.00	120.00	1	30.0	7.85	7.00	7.43	0.04	8.91	
	120.00	150.00	1	30.0	7.00	6.95	6.98	0.04	8.37	
	Ch: 00-110.10 3rd Main Road contd. From Bldg No. 155-165									
	0.00	30.00	1	30.0	8.80	6.60	7.70	0.04	8.24	
	30.00	60.00	1	30.0	6.60	7.20	6.90	0.04	8.28	
	60.00	90.00	1	30.0	7.20	6.80	7.00	0.04	8.40	
	90.00	110.10	1	20.1	6.80	6.80	6.80	0.04	5.47	
	Ch: 00-38 MEC School Road									
	0.00	30.00	1	30.0	8.70	4.90	6.80	0.04	8.16	
	30.00	38.00	1	8.0	4.90	5.40	5.15	0.04	1.65	
	Ch: 00-28.50 3rd B Main Road in front of Guruprasad Apartment									
	0.00	10.00	1	10.0	5.00	5.50	5.25	0.04	2.10	
	10.00	20.00	1	10.0	5.50	11.40	8.45	0.04	3.38	
	20.00	28.50	1	8.5	11.40	16.80	14.10	0.04	4.79	
	Ch: 00-62.90 Road adjacent to Guruprasad Apartment									
	0.00	30.00	1	30.0	6.10	3.70	4.90	0.04	5.88	
	30.00	60.00	1	30.0	11.40	4.00	7.70	0.04	9.24	
	60.00	62.90	1	2.9	4.00	4.40	4.20	0.04	0.49	
	Ch: 00-96.50 4th A Cross Road in front of Bldg No.21									
	0.00	30.00	1	30.0	5.50	4.50	5.00	0.04	6.00	
	30.00	60.00	1	30.0	4.50	4.50	4.50	0.04	5.40	
	60.00	90.00	1	30.0	4.50	4.70	4.60	0.04	5.52	
	90.00	96.50	1	6.5	4.70	5.40	5.05	0.04	1.31	
	Ch: 00-188.50 6th Main Road									

Sl No.	DRAINAGE Land Mark		No	Length (m)	Width B1 (m)	Width B2 (m)	Avg. Width (m)	Depth (m)	Qty	Remarks
	0.00	30.00	1	30.0	8.00	5.30	6.65	0.04	7.98	
	30.00	38.70	1	8.7	5.30	5.20	5.25	0.04	1.83	
	38.70	54.70	1	16.0	6.50	5.40	5.95	0.04	3.81	
	54.70	60.00	1	5.3	4.10	3.50	3.80	0.04	0.81	
	60.00	90.00	1	30.0	3.50	4.80	4.15	0.04	4.98	
	90.00	120.00	1	30.0	4.80	4.10	4.45	0.04	5.34	
	120.00	150.00	1	30.0	4.10	4.20	4.15	0.04	4.98	
	150.00	180.00	1	30.0	4.20	4.40	4.30	0.04	5.16	
	180.00	188.50	1	8.5	4.40	6.00	5.20	0.04	1.77	
	Ch: 00-285 Connecting Road to 3rd Main									
	0.00	30.00	1	30.0	8.90	8.50	8.70	0.04	10.44	
	30.00	60.00	1	30.0	8.50	8.30	8.40	0.04	10.08	
	60.00	90.00	1	30.0	8.30	8.20	8.25	0.04	9.90	
	90.00	120.00	1	30.0	8.20	8.40	8.30	0.04	9.96	
	120.00	150.00	1	30.0	8.40	7.90	8.15	0.04	9.78	
	150.00	180.00	1	30.0	7.90	8.20	8.05	0.04	9.66	
	180.00	210.00	1	30.0	8.20	9.30	8.75	0.04	10.50	
	210.00	240.00	1	30.0	9.30	9.20	9.25	0.04	11.10	
	240.00	270.00	1	30.0	9.20	9.30	9.25	0.04	11.10	
	270.00	280.68	1	10.7	9.30	7.80	8.55	0.04	3.65	
	Ch: 00-81.10 3rd Main 1st Cross									
	0.00	30.00	1	30.0	5.00	5.70	5.35	0.04	6.42	
	30.00	34.30	1	4.3	5.70	5.40	5.55	0.04	0.95	
	34.30	41.30	1	7.0	7.00	7.00	7.00	0.04	1.96	
	41.30	60.00	1	18.7	7.00	5.60	6.30	0.04	4.71	
	60.00	71.30	1	11.3	5.60	5.60	5.60	0.04	2.53	
	71.30	81.10	1	9.8	5.60	7.80	6.70	0.04	2.63	
	Ch: 00-181.50 2nd B Main Road - SL Byrappa Road									
	0.00	30.00	1	30.0	7.80	5.00	6.40	0.04	7.68	
	30.00	60.00	1	30.0	5.00	4.00	4.50	0.04	5.40	
	60.00	90.00	1	30.0	6.50	5.00	5.75	0.04	6.90	
	90.00	120.00	1	30.0	4.10	3.50	3.80	0.04	4.56	
	120.00	150.00	1	30.0	3.50	4.60	4.05	0.04	4.86	
	150.00	180.00	1	30.0	4.60	5.50	5.05	0.04	6.06	
	180.00	181.50	1	1.5	5.50	5.50	5.50	0.04	0.33	
	Ch: 00-36.50 Road from Bldg 170-172 (Puzzles Technologies)									
	0.00	30.00	1	30.0	5.60	5.20	5.40	0.04	6.48	
	30.00	36.50	1	6.5	5.20	5.10	5.15	0.04	1.34	
	Ch: 00-30 Road in front of SM Meadows Apartment									
	0.00	30.00	1	30.0	4.50	4.00	4.25	0.04	5.10	
	Ch: 00-75.70 SWWC Road - 1st Main Road									
	0.00	30.00	1	30.0	5.00	3.80	4.40	0.04	5.28	
	30.00	60.00	1	30.0	3.80	3.50	3.65	0.04	4.38	
	60.00	90.00	1	30.0	3.50	3.90	3.70	0.04	4.44	

Sl No.	DRAINAGE Land Mark	No	Length (m)	Width B1 (m)	Width B2 (m)	Avg Width (m)	Depth (m)	Qty	Remarks
							Total Qty	3240.05	
							VO Qty	3240.24	
							Qty already paid in RA Bill No.1 & Part	2456.35	
							Qty to be paid in this bill	783.70	Cum

Contractor representative

Consultant representative

Assistant Engineer

25/5/2021

Assistant Executive Engineer.

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	25	
Item Name	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per directions of the Engineer-in-charge of the work	

Pre Measurements recorded on

Sl No.	CHAINAGE		No	Length (m)	Width		Avg. Width (m)	Depth (m)	Qty	Remarks
	Land Mark				B1 (m)	B2 (m)				
	Second & Final Bill									
	Edge Line									
	Attur Layout Ch: 00-228									
	0.00	30.00	2	30.0			0.15		9.00	
	30.00	60.00	2	30.0			0.15		9.00	
	60.00	90.00	2	30.0			0.15		9.00	
	90.00	120.00	2	30.0			0.15		9.00	
	120.00	150.00	2	30.0			0.15		9.00	
	150.00	180.00	2	30.0			0.15		9.00	
	180.00	207.00	2	27.0			0.15		8.10	
	207.00	228.00	2	21.0			0.15		6.30	
	SFS 208									
	Ch: 00-315 2nd Cross road									
	0.00	30.00	2	30.0			0.15		9.00	
	30.00	60.00	2	30.0			0.15		9.00	
	60.00	90.00	2	30.0			0.15		9.00	
	90.00	120.00	2	30.0			0.15		9.00	
	120.00	150.00	2	30.0			0.15		9.00	
	150.00	160.00	2	10.0			0.15		3.00	
	160.00	170.00	2	10.0			0.15		3.00	
	170.00	180.00	2	10.0			0.15		3.00	
	180.00	185.00	2	5.0			0.15		1.50	
	185.00	190.00	2	5.0			0.15		1.50	
	190.00	195.00	2	5.0			0.15		1.50	
	195.00	200.00	2	5.0			0.15		1.50	
	200.00	230.00	2	30.0			0.15		9.00	

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No	13	
Item Name	Painting two coats after filling the surface with syntetic enamel paint in approved shades on new plastered concrete surfaces with materials, labour complete as per specifications and as per directions of the Engineer in charge of work	

Pre Measurements recorded on

Sl No	CHAINAGE / Land Mark		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	Second & Final Bill							
	Yelehanka Newtown 4th Phase							
	Ch: 00-36 1st B Main LHS							
	0 00	30 00		1	30	0 55	16 50	
	30 00	60 00		1	30	0 55	16 50	
	60 00	90 00		1	30	0 55	16 50	
	90 00	120 00		1	30	0 55	16 50	
	120 00	150 00		1	30	0 55	16 50	
	150 00	180 00		1	30	0 55	16 50	
	180 00	210 00		1	30	0 55	16 50	
	210 00	230 50		1	20 5	0 55	11 28	
	4th Phase Ch: 00-36 1st Main 2nd Cross LHS							
	0 00	30 00		1	30	0 55	16 50	
	30 00	57 80		1	27 8	0 55	15 29	
	4th Phase Ch: 00-36 1st Main 2nd Cross RHS							
	0 00	30 00		1	30	0 55	16 50	
	30 00	36 00		1	6	0 55	3 30	
	4th Phase Ch: 00-40 Girls Hostel road							
	0 00	30 00		1	30	0 55	16 50	
	30 00	40 00		1	10	0 55	5 50	
	4th Phase Ch: 00-150 SB College							
	0 00	30 00		1	30	0 55	16 50	
	30 00	60 00		1	30	0 55	16 50	
	60 00	90 00		1	30	0 55	16 50	
	90 00	120 00		1	30	0 55	16 50	
	120 00	122 00		1	2	0 55	1 10	
	4th Phase Ch: 00-109 BMTC Bus stop side road							
	0 00	30 00		1	30	0 55	16 50	
	30 00	60 00		1	30	0 55	16 50	
	60 00	90 00		1	30	0 55	16 50	
	90 00	109 00		1	19	0 55	10 45	
	Ch: 00-208 2nd Cross							
	0 00	30 00		1	30	0 55	16 50	
	30 00	60 00		1	30	0 55	16 50	
	60 00	90 00		1	30	0 55	16 50	
	90 00	120 00		1	30	0 55	16 50	
	120 00	150 00		1	30	0 55	16 50	
	150 00	180 00		1	30	0 55	16 50	
	180 00	208 00		1	28	0 55	15 40	
	Ch: 00-241.20 Main Road LHS							
	0 00	30 00		1	30	0 55	16 50	
	30 00	60 00		1	30	0 55	16 50	
	60 00	90 00		1	30	0 55	16 50	
	90 00	120 00		1	30	0 55	16 50	
	120 00	150 00		1	30	0 55	16 50	

Sl No	CHAINAGE Land Mark		No	Length (m)	Width (m)	Depth (m)	Qty	Remarks
	4th Main Road 1st Cross RHS Ch: 00-98.30							
	0.00	30.00		1	30.00	0.55	16.50	
	30.00	60.00		1	30.00	0.55	16.50	
	60.00	90.00		1	30.00	0.55	16.50	
	90.00	98.30		1	8.30	0.55	4.57	
	3rd Main Road Ch: 00-103.00							
	0.00	30.00		2	30.00	0.55	33.00	
	30.00	60.00		2	30.00	0.55	33.00	
	60.00	90.00		2	30.00	0.55	33.00	
	90.00	103.00		2	13.00	0.55	14.30	
	2nd Cross Road LHS Ch: 00-260.70							
	0.00	30.00		2	30.00	0.55	33.00	
	30.00	55.00		2	25.00	0.55	27.50	
	63.80	90.00		2	26.20	0.55	28.82	
	90.00	120.00		2	30.00	0.55	33.00	
	120.00	125.90		2	5.90	0.55	6.49	
	197.70	210.00		2	12.30	0.55	13.53	
	210.00	240.00		2	30.00	0.55	33.00	
	240.00	260.70		2	20.70	0.55	22.77	
	5th Main Road Ch: 00-15.00							
	0.00	15.00		1	15.00	0.55	8.25	
	Damaged/Missing Kerb							
	SFS 407 & Sorrounding areas							
	0.00	30.00		2	30.00	0.55	33.00	
	30.00	60.00		2	30.00	0.55	33.00	
	60.00	90.00		2	30.00	0.55	33.00	
	90.00	120.00		2	30.00	0.55	33.00	
	120.00	150.00		2	30.00	0.55	33.00	
	150.00	180.00		2	30.00	0.55	33.00	
	180.00	206.00		2	26.00	0.55	28.60	
						Total Qty	**1769.24**	
						VO Qty	**1770.00**	
						Qty already paid in RA Bill No.1 & Part	**0.00**	
						Qty to be paid in this bill	**1769.24**	**Sqm**

Contractor representative

Assistant Engineer

28/5/2021

Consultant representative

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet

Second and Final bill

Item No 26

Item Name: KSRRB M800-35 Supply and installation of Moulded shank raised pavement markers made of polycarbonate and ABS (Acrylonitrile Butadience Styrene) moulded boady and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to specifications of category A of MORTH Circular No. RW/NH/33023/10-97- Do III Dt. 11.06.1997. The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the Engineer

Sl No.	CHAINAGE / Land Mark	No	Length (m)	Width (m) Start(B1)	Width (m) End (B2)	Avg. Width	Depth (m)	Qty	Remarks	Rate	Amount
	Vide Premeasurement Page No.							3719			
	Qty as per revised Estimate							3720			
	Qty Paid previously							0.00			
	Qty to be paid in this bill							3719	Nos	375.08	1395048

Contractor representative

Consultant representative

Assistant Engineer

9/6/2021

Assistant Executive Engineer

9/6/2021

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work:- Improvements to roads, drains and other developmental works in ward no- 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -03)

Work Order No. : BBMP/EE/YNK.D/EPMT-12/W.O/08/2020-21 dated 8.5.2020

Estimate cost : Rs. 1000.00 Lakhs

Name of Contractor :- Sri Girish (M/s RAM & CO.)

Final Measurement Sheet
Second & Final Bill

Item No.	26

Item Name: KSRRB M800-35 Supply and installation of Moulded shank raised pavement markers made of polycarbonate and ABS (Acrylonitrile Butadience Styrene) moulded boady and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to specifications of category A of MORTH Circular No. RW/NH/33023/10-97- Do III Dt. 11.06.1997. The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the Engineer

Pre Measurements recorded on

Sl No.	CHAINAGE Land Mark		No	Length (m)	Width B1 (m)	Width B2 (m)	Avg. Width (m)	Depth (m)	Qty	Remarks
	Second & Final Bill									
	Pavement Markers for every 3m interval on both Edge Line									
	Attur Layout Ch: 00-228									
	0.00	30.00		2	30.0				20	
	30.00	60.00		2	30.0				20	
	60.00	90.00		2	30.0				20	
	90.00	120.00		2	30.0				20	
	120.00	150.00		2	30.0				20	
	150.00	180.00		2	30.0				20	
	180.00	207.00		2	27.0				18	
	207.00	228.00		2	21.0				14	
	SFS 208									
	Ch: 00-315 2nd Cross road									
	0.00	30.00		2	30.0				20	
	30.00	60.00		2	30.0				20	
	60.00	90.00		2	30.0				20	
	90.00	120.00		2	30.0				20	
	120.00	150.00		2	30.0				20	
	150.00	160.00		2	10.0				7	
	160.00	170.00		2	10.0				7	
	170.00	180.00		2	10.0				7	
	180.00	185.00		2	5.0				3	
	185.00	190.00		2	5.0				3	
	190.00	195.00		2	5.0				3	
	195.00	200.00		2	5.0				3	
	200.00	230.00		2	30.0				20	

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Sl No.	CHAINAGE Land Mark		No	Length (m)	Width B1 (m)	Width B2 (m)	Avg Width (m)	Depth (m)	Qty	Remarks
	60.00	90.00	2	30.0					20	
	90.00	114.70	2	24.7					16	Road cross
	120.00	150.00	2	30.0					20	
	150.00	180.00	2	30.0					20	
	180.00	210.00	2	30.0					20	
	210.00	240.00	2	30.0					20	
	240.00	270.00	2	30.0					20	
	270.00	279.00	2	9.0					6	
	Ch: 00-323.50 SB College Road									
	0.00	30.00	2	30.0					20	
	30.00	60.00	2	30.0					20	
	60.00	90.00	2	30.0					20	
	90.00	120.00	2	30.0					20	
	120.00	150.00	2	30.0					20	
	150.00	180.00	2	30.0					20	
	180.00	210.00	2	30.0					20	
	210.00	240.00	2	30.0					20	
	240.00	270.00	2	30.0					20	
	270.00	300.00	2	30.0					20	
	300.00	323.50	2	23.5					16	
	Ch: 00-188.50 6th Main Road									
	0.00	30.00	2	30.0					20	
	30.00	38.70	2	8.7					11	
	38.70	54.70	2	16.0					4	
	54.70	60.00	2	5.3					20	
	60.00	90.00	2	30.0					20	
	90.00	120.00	2	30.0					20	
	120.00	150.00	2	30.0					20	
	150.00	180.00	2	30.0					20	
	Ch: 00-181.50 2nd B Main Road - SL Byrappa Road									
	0.00	30.00	2	30.0					20	
	30.00	60.00	2	30.0					20	
	60.00	90.00	2	30.0					20	
	90.00	120.00	2	30.0					20	
								Total Qty	3719	
								VO Qty	3720	
								Qty already paid in RA Bill No.1 & Part	0.00	
								Qty to be paid in this bill	3719	Nos

Contractor representative

Consultant representative

Assistant Engineer

9/6/2021

Assistant Executive Engineer

No.	CHAINAGE Land Mark	Nos	Length (m)	Width B1 (m)	Width B2 (m)	Avg. Width (m)	Depth (m)	Qty	Remarks
	SFS 407								
	Ch: 00-323.50 SB College Road	3	1.6			0.90		4.32	
							Total Qty	**12.96**	
							VO Qty	**12.96**	
							Qty already paid in RA Bill No.1 & Part	**0.00**	
							Qty to be paid in this bill	**12.96**	**Sqm**

Contractor representative

Consultant representative

Gooty Consultancy Bangalore

Assistant Engineer

14/6/2021

Assistant Executive Engineer.

14/6/2021

Sl No.	CHAINAGE Land Mark	Nos	Length (m)	Width B1 (m)	Width B2 (m)	Avg. Width (m)	Depth (m)	Qty	Remarks
	Ch: 00-38 MEC School Road	2	0.9			0.90		1.62	
	Ch: 00-188.50 6th Main Road	2	0.9			0.90		1.62	
	Ch: 00-81.10 3rd Main 1st Cross	2	0.9			0.90		1.62	
	Ch: 00-181.50 2nd B Main Road - SL Byrappa Road	3	0.9			0.90		2.43	
	Ch: 00-75.70 SWWC Road - 1st Main Road	2	0.9			0.90		1.62	
	Ch: 00-323.50 SB College Road	5	0.9			0.90		4.05	
							Total Qty	24.30	
							VO Qty	24.30	
							Qty already paid in RA Bill No.1 & Part	0.00	
							Qty to be paid in this bill	24.30	Sqm

C&FC

Contractor representative

Consultant representative

Cooly Consultancy Services Bangalore

Assistant Engineer

Assistant Executive Engineer

18/6/2021